PATENT COOPERATION TREATPORTO 10 JAN 2005
PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70 REC'L 30 JUL 2004

WIPO PCT

Applicant's or agent's file reference FES/PF4879/WO	FOR FURTHER ACTION See Noting Prelimina	fication of Transmittal of International ary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP 03/07615	International filing date (day/month/year) 11.07.2003	Priority date (day/month/year) 12.07.2002	
International Patent Classification (IPC) or both A61K31/445 Applicant GLAXO GROUP LIMITED et al.	oth national classification and IPC		
	nination report has been prepared by this applicant according to Article 36.	International Preliminary Examining	
☐ This report is also accompani	5 sheets, including this cover sheet. ied by ANNEXES, i.e. sheets of the descrass for this report and/or sheets containing of the Administrative Instructions und	ription, claims and/or drawings which have ng rectifications made before this Authority	
These annexes consist of a total of			
3. This report contains indications rela	ting to the following items:		
I ⊠ Basis of the opinion II □ Priority			
·	inion with a grand t		
IV Lack of unity of invention	inion with regard to novelty, inventive ste	p and industrial applicability	
V 🖾 Reasoned statement und citations and explanation	der Rule 66.2(a)(ii) with regard to novelty, s supporting such statement	inventive step or industrial applicability;	
VI ☐ Certain documents cited			
	ernational application he international application		
Date of submission of the demand	Date of completion of	this report	
27.01.2004	29.07.2004		
Name and mailing address of the international oreliminary examining authority:	Authorized Officer		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 ep Fax: +49 89 2399 - 4465	D (W	2399-7078	

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/07615

I.	Basis	of	the	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** 1-42 as originally filed Claims, Numbers 1-14 as originally filed

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: - the description. pages: the claims. Nos.: the drawings. sheets: This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

6. Additional observations, if necessary:

report.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/07615

П	I. No	n-establishment of opinion	with re	egard to nov	elty, inventive step and industrial applicability			
1	. The	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international applic	ation,					
	☑ claims Nos. 1-14 (part)							
		because:						
	the said international application, or the said claims Nos. relate to the following subject matter which contrequire an international preliminary examination (specify):							
the description, claims or drawings (indicate particular elements below) or said claims Nos. that no meaningful opinion could be formed (specify):								
		the claims, or said claims No could be formed.	s. are s	so inadequat	ely supported by the description that no meaningful opinior			
	\boxtimes	no international search report	has b	een establis	ned for the said claims Nos. 1-14 (part)			
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:							
		the written form has not been	furnisl	hed or does	not comply with the Standard.			
		the computer readable form h	as not	been furnish	ned or does not comply with the Standard.			
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement						
1.	Stat	atement						
	Nov	elty (N)	Yes: No:	Claims Claims	1-14 (part)			
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-14 (part)			
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-14 (part)			

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Item V

Only part of the claims in respect of which an International Search Report has been established will be examined i.e. part of the application relating to compounds of formula (I) wherein Ar1 is (i): phenyl, naphtyl, or phenyl fused by a C_{3-8} cycloalkyl (Rule 66.1(e) PCT).

2 Prior art

Reference is made to the following documents:

D1: WO 2002 055497 A D2: WO 01 06261 A

D3: US-A-5 767 131

D4: J. MED. CHEM. 1985, vol. 28, no. 6, p. 815-818

The priority document pertaining to the present application was not available at the time of establishing this international preliminary examination report. Hence, it is based on the assumption that all claims enjoy priority rights from the filing date of the priority document. If it later turns out that this is not correct, the P-document D1 cited in the international search report could become relevant to assess whether the claims satisfy the criteria set forth in Article 33(1) PCT.

3 Novelty (Article 33(2) PCT)

The compounds of the present application are novel over D2-D4 in view of the R1 substituent on the Ar1.

4 Inventive step (Article 33(3) PCT

The Applicant appears to have set himself the task of making available further compounds useful for treating conditions resulting from elevated levels of LDLcholesterol.

D2 and D3 which represent the closest prior art disclose closely related piperidine derivatives i.e. 1-arylpiperidines attached to an aryl group or heterocyclic group via a linking chain containing an amide linker. In addition said compounds of D2 and D3



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provide a solution to the above mentioned technical problem (see D2, claim 1 and D3 claim 15). Therefore, in the absence of any unexpected effect established by comparative tests or other appropriate information the present compounds are considered obvious vis a vis D2-D3.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)